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# Agenda



- Current Assessment
- Solution IDS
- Program Status
- Homeland Security Strategy
- Cutter Characteristics
- Cutter Certification Plan
- IDS/DDX/LCS Intersection
- Conclusion

# 21st Century Environment

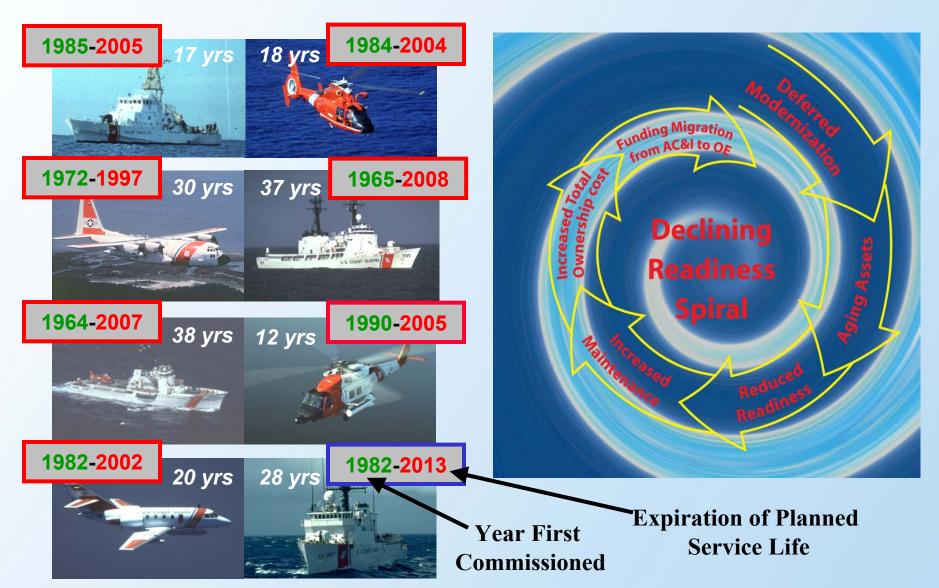




**Impact:** Studies predict an increase in the nation's reliance on the Coast Guard.

# **Current Coast Guard Capabilities**





# Solution: Integrated Deepwater System



#### **Performance Based:**

 Focus on capabilities not assets

### **Acquisition Strategy:**

• **Partner** with system integrator



 Acquire integrated system of surface, air, C4ISR, and logistics systems

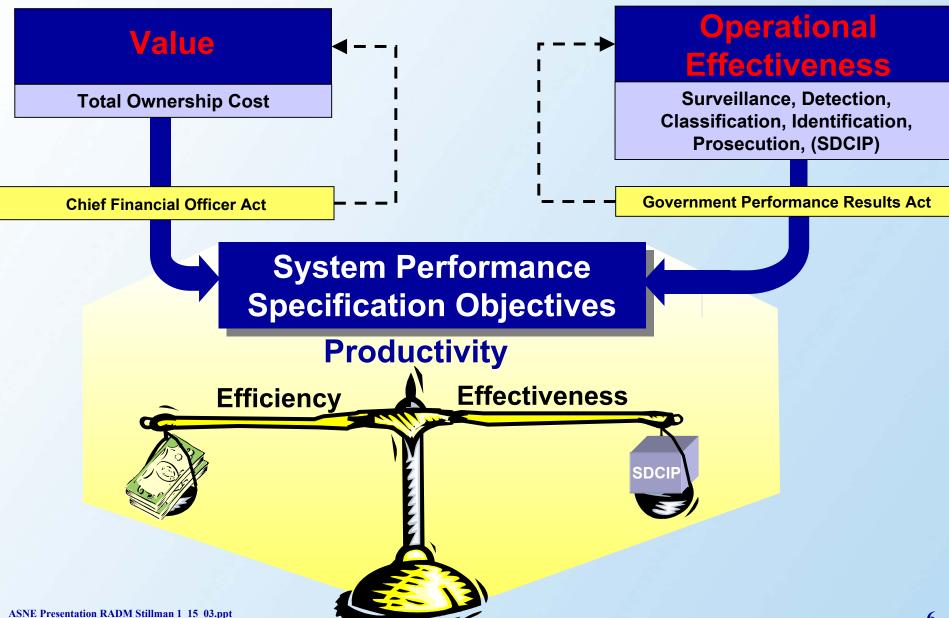
#### **Overarching Objective:**

 Maximize Operational Effectiveness while Minimizing Total Ownership Costs

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# Performance Based Acquisition





# System Solution – Network Centric





# System Solution – Assets





# **Program Status**



- Contract awarded 25 June 2002 to Integrated Coast Guard Systems (ICGS), a joint venture between Lockheed Martin and Northrop Grumman.
- ICGS is a fully integrated team that is ready to commence re-capitalization of USCG assets



NORTHROP GRUMMAN

ARINC
Bell Agusta Aerospace Corp.
Bell Helicopter Textron
EADS CASA
EADS Eurocopter
Halter – Bollinger
L3 Communications

LM Management & Data Systems
LM Technology Services
M. Rosenblatt & Sons
Northrop Grumman Full Service Operations
Northrop Grumman IT
PROSOFT
United Defense, LP

# People, Performance, and Partnership

# **Homeland Security Strategy**



### **Comprehensive National Strategy**







Surveil

Detect

Classify

**Identify** 

**Prosecute** 

**Conduct layered maritime security operations** 

Establish & maintain a baseline level of maritime security

Strengthen the port security posture

**Build & leverage Maritime Domain Awareness** 

Develop required capabilities, improve core competencies & recapitalize the CG

Organize & sustain a public private sector partnership; increase international partnership

Prepare, equip & train forces to transition between & conduct HLS & HLD ops

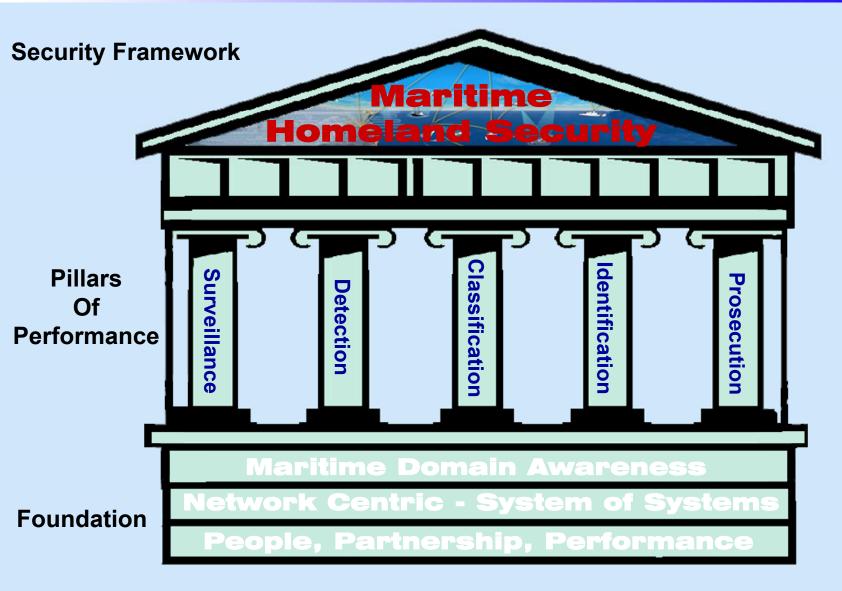
Prevent Terrorist Attacks within the United States

Reduce America's Vulnerability to Terrorism

Minimize the Danger and Recover from the Attacks that do Occur

# Homeland Security Requirements





### **Global Mission Execution**





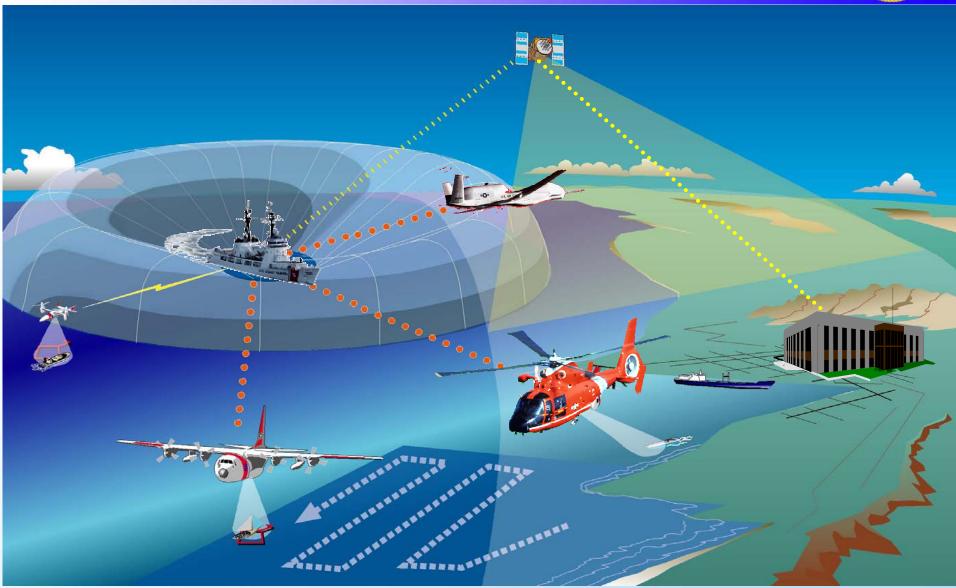


CGC Boutwell being deployed to the Middle East

Coast Guard cutters conduct maritime-intercept operations, carry out peacetime-engagement missions, and perform other essential warfare tasks for all three forward-deployed Navy fleets: the Fifth Fleet in the Arabian Gulf/Middle East; the Sixth Fleet in the Mediterranean; and the Seventh Fleet in the Western Pacific. However, the Coast Guard deepwater fleet is aging and in urgent need of replacement.

### **Maritime Domain Awareness**





Fully Interoperable C4ISR Network-Centric Architecture

### 123' WPB Characteristics



#### 123' Patrol Boat (Legacy 110' SLEP) [Delivery 2003–2010]



Range

3180/3380/3300 nm

### National Security Cutter Characteristics



#### National Security Cutter [Delivery 2006 – 2013]

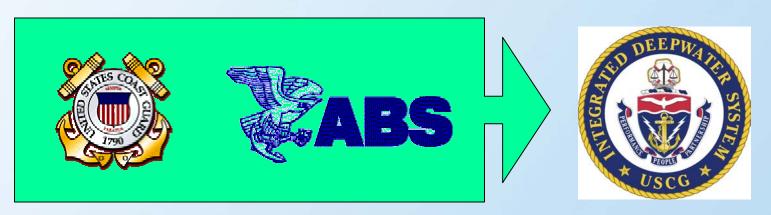
Endurance/Range	60 Days / 12,000 nmi	Length	421 ft, LOA
Fuel	650 tons	Beam	54 ft
Crew, OFF/CPO/ENL	18/12/88	Draft	20.9 ft
Propulsion Plant	CODAG	Displacement	3,886 tons, Full Load
Electric Plant	2 SSDGs + 1 Emergency Gen	Speed	28.1 kts (Sustained at
Ship Control	Integrated Bridge		85% MCR)
	U.S. COAST GU	ARD	29.1 kts (Max at 100% MCR)

### **Cutter Certification Plan**



American Bureau of Shipping and the contractors provide flexibility in the selection of Standards for cost-effective IDS solutions

The Generic Certification Matrix presents the standards that serve as the basis for development of the Cutter Specific Certification Matrix



# What do we expect from CG/ABS Team?



# GENERIC LIST (MATRIX) OF STANDARDS FOR DESIGN & CONSTRUCTION

- Our technical experts work with ABS technical experts.
- A compilation of standards organized by Work Breakdown Structure.
- Inclusion of commercial standards to replace out-dated military standards.
- We invited Industry input during development.

#### IMPLEMENTATION PLAN

• Instructions which guide Industry to develop a Ship-Specific set of standards from the "Generic Certification Matrix"

#### MAINTENANCE PLAN

• A plan for maintaining the Generic List of Standards over the coming years to ensure currency

# **IDS/DDX/LCS** Common Interests





# The Way Ahead



- Combat Systems Support (NSC)
- Open Architecture
- LCS Interaction
  - Modularity
  - CAIV
  - Communications
  - Scaleability
- Supportability
  - Shared life cycle support

# Why Deepwater?



- Secures the Homeland by providing improved Maritime Security and Safety
- Enables the Coast Guard to
  - Maintain credible presence in key maritime regions to deter potential threats to U.S. sovereignty
  - Right way to achieve complex goals through public private partnership
- Provides Nation best national security, military, law enforcement, and search & rescue capability for taxpayer's dollar
- Ensures USCG remains best CG in the world military, multimission, maritime, mobile, agile and flexible

### **Vision Statement:**

"Keeping the U.S. Coast Guard the world's best...properly equipped and fully prepared to meet every maritime challenge of the 21st Century."

"Our men and women in uniform deserve the best weapons, the best equipment, the best training..."

President George W. Bush State of the Union Address January 2002

"The Budget for Fiscal Year 2004 will continue to support the recapitalization of the U.S. Coast Guard's aging fleet, as well as targeted improvements in the areas of maritime domain awareness, command and control systems, and shore-side facilities."

Excerpt from the President's National Homeland Security Strategy

Visit us on the web at http://www.uscg.mil/deepwater